Math 9 Assignment #2 Due Date: \_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_

Mark \_\_\_\_\_\_ / 36

**Directions**: All questions must be completed on loose leaf. A calculator is allowed. Please reduce any fractions to lowest terms. Place a box around your final answer. **ALL WORK MUST BE SHOWN FOR FULL VALUE.**

**Part A: 1 mark each for a-d, 2 marks eacg for e-h /12**

Evaluate each of the following:

a) -159.4 + 48.7 b) 0.078 - (-0.145) c) (-5.6)(4.2) d) (-16.2) ÷ (-2)

c)  d)  e)  f) 

**Part B: Please answer all questions. 3 marks each /12**

1. Order the following rational numbers on a number line:

2.6 -  1.2 - 

1. Find 3 rational numbers between  and -0.4
2. Indicate at which step an error occurred and explain the error. Then, re-do this question correctly.



1. The temperature of a freezer changed from -18.1°C to -16.8°C.
2. By how much did the temperature change?
3. Is this an increase or decrease in temperature? Explain how you know.
4. By how much does the temperature need to change again before it is at -4.2°C?

**Part C: Complete question 1 and choose any 2 of the remaining 3 questions.**

**4 marks each /12**

1. Evaluate:



(Leave answer in fraction form)

1. A mountain climber descends from base camp at an average speed of 5.8 m/h. How far below base camp will the climber be after 4.25 h? Use a vertical number line with base camp at 9 to illustrate the climber’s descent.
2. For the expression:



1. Simplify the above expression and express your answer as a fraction.
2. By inserting one pair of brackets, how many different answers can you get? (i.e., try inserting brackets in various positions)
3. By inserting two pairs of brackets, can you get an answer that is different?
4. Jack & Jill shared a vegetarian pizza and a Hawaiian pizza of the same size. The vegetarian pizza was cut into 4 equal slices and the Hawaiian pizza was cut into 6 equal slices. Jack ate two slices of vegetarian and one slice of Hawaiian. Jill ate one slice of vegetarian and two slices of Hawaiian.
   1. Who ate more pizza?
   2. How much more did that person eat?
   3. How much pizza was left over?